

## CLAIMS AMENDMENTS

Please amend the claims as follows:

1. (currently amended) A high voltage transformer, having high voltage elements (1, 8) arranged so that a 0 Volt level or ground level (2) is situated in a middle zone of a secondary high voltage winding (1); a negative potential progressively increasing from said ground level (2) towards a first end (3); a positive potential progressively increasing from said ground level (2) towards a second end (4); so as to establish equipotential voltages in elements at a same distance from the ground level (2), the high voltage transformer being characterized in that it comprises low voltage elements (5) on a first branch of a magnetic core (7); said secondary high voltage winding (1) on a second branch of the magnetic core (7).
2. (original) A high voltage transformer according to claim 1, characterized in that low voltage elements (5) are separated from the high voltage elements (1, 8) by insulating means (6).
3. (original) A high voltage transformer according to claim 2, characterized in that the insulating means separating the high voltage elements (1, 8) from low voltage (5) elements comprises an insulating partition (6).
4. (currently amended) A high voltage transformer according to any of claims 1-3, characterized in that the progressive increase in voltage potential towards the ends (3, 4) is linear.
5. (currently amended) A piece of electronic equipment characterized in that it comprises a high voltage transformer ~~according to any of claims 1-3, having high voltage elements arranged so that a 0 Volt level or ground level is situated in a middle zone of a secondary high voltage winding;~~

a negative potential progressively increasing from said ground level towards a first end;

a positive potential progressively increasing from said ground level towards a second end;

so as to establish equipotential voltages in elements at a same distance from the ground level, the high voltage transformer being characterized in that it comprises

low voltage elements on a first branch of a magnetic core;

said secondary high voltage winding on a second branch of the magnetic core.

6. (currently amended) A piece of electronic equipment according to claim 5, characterized in that ~~it comprises a high voltage transformer according to claim 4~~.  
low voltage elements of the high voltage transformer are separated from the high voltage elements by insulating means.
7. (original) A radiogenic vessel (9) characterized in that it comprises  
a high voltage transformer according to any of claims 1-3;  
an X-ray tube (10)  
arranged so that a 0 Volt level or ground level is situated in a middle zone of the X-ray tube (10) in correspondence with the 0 Volt level or ground level (2) situated in a middle zone of the secondary high voltage winding (1);  
a negative potential progressively increasing from said ground level in correspondence with the first end (3);  
a positive potential progressively increasing from said ground level in correspondence with the second end (4);  
so as to establish equipotential voltages in elements at a same distance from the ground level.
8. (original) A radiogenic vessel (9) characterized in that it comprises  
a high voltage transformer according to claim 4;

- an X-ray tube (10)  
arranged so that a 0 Volt level or ground level is situated in a middle zone of the  
X-ray tube (10) in correspondence with the 0 Volt level or ground level (2)  
situated in a middle zone of the secondary high voltage winding (1);  
a negative potential progressively increasing from said ground level in  
correspondence with the first end (3);  
a positive potential progressively increasing from said ground level in  
correspondence with the second end (4);  
so as to establish equipotential voltages in elements at a same distance from the ground  
level.
9. (new) A piece of electronic equipment according to claim 6, characterized in that the  
insulating means of the high voltage transformer, separating the high voltage elements  
from low voltage elements comprising an insulating partition.
10. (new) A piece of electronic equipment according to either of claims 5 or 6,  
characterized in that progressive increase in potential towards the ends in the high  
voltage transformer is linear.